



# Private-sector employment in Appalachian Pennsylvania

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This report provides an overview of private-sector employment in Appalachian Pennsylvania. All data featured in the report come from [data-Fab](#), which uses a proprietary algorithm to estimate industry-specific employment values for each county in the United States. In many cases, due to data suppression issues, public datasets do not provide the level of detail required (i.e., industry-specific estimates) to perform meaningful analyses of geographies with low population or employment levels (i.e., many rural counties).

Data-Fab uses publicly available data from the U.S. Bureau of Labor Statistics—the Quarterly Census of Employment and Wages (QCEW)—and then “fills in” unknown or suppressed values. The resulting dataset, featured throughout this report, allows for industry-specific employment estimates.

Without a dataset that “fills in” these missing values, discussion surrounding county-level employment can oftentimes be limited to only high-level, broad categories such as “Manufacturing.” With data-Fab, however, 91 industries are examined—and in the case of manufacturing, 18 specific types of manufacturing are included as distinct categories (e.g., “Paper Manufacturing” and “Transportation Equipment Manufacturing”). Descriptions of each industry are available by clicking on the links in Table 6 below.

In addition to state-specific reports (such as this one), a spreadsheet is available on ARC’s website, where users can create custom data pulls that compare geographies and industries of particular interest.

Figure 1 compares **changes in total employment** levels from 2016 to 2021 across five geographies.

Appalachian Pennsylvania saw a *decline* of 4.2% over the time period, whereas the non-Appalachian portion saw an *increase* of 0.8%. The United States as a whole and the Appalachian Region both experienced *increases* in total employment, as well, at 1.8% and 0.4% growth, respectively.

Figure 1 – Employment change, 2016 to 2021

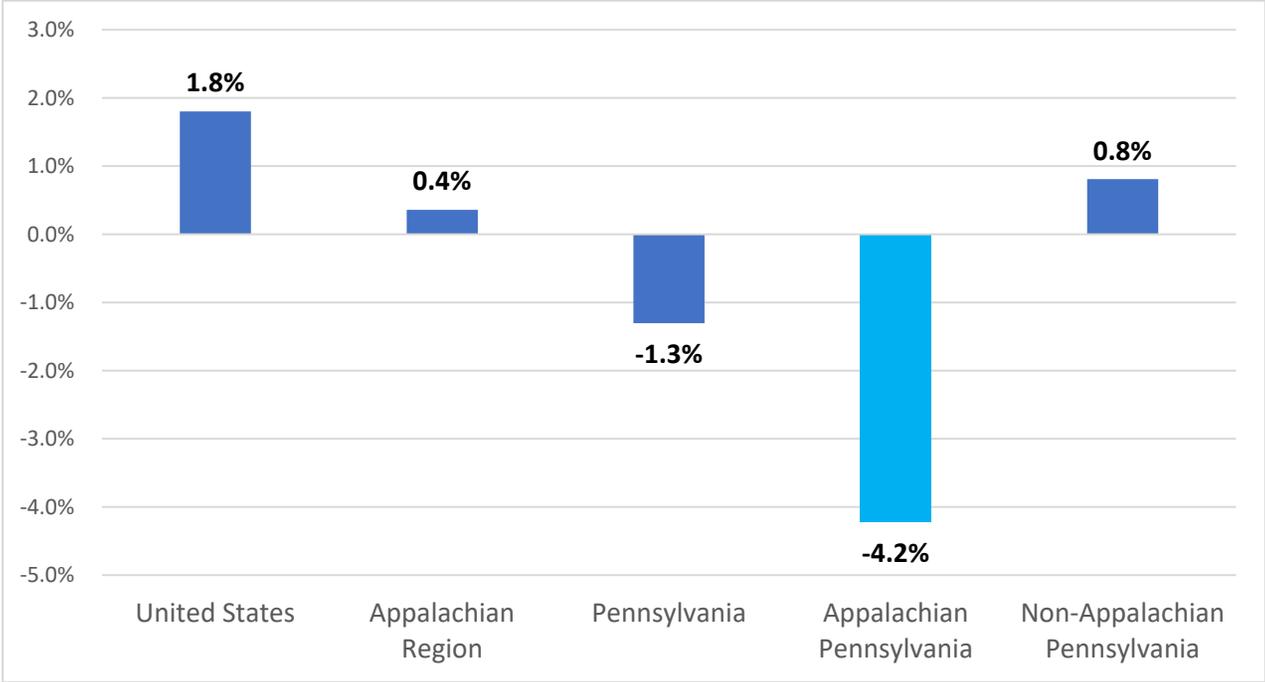


Table 1 ranks industries by **employment levels** in 2021.

Also included in the table are **industrial shares**, which represent the percentage of total employment constituted by any given industry. For example, in 2021, **Food Services and Drinking Places** accounted for 7.8% of total employment in Appalachian Pennsylvania.

Two **employment change** variables are also included: **number** and **percent**. The aforementioned industry—**Food Services and Drinking Places**—saw a 12.1% decrease in employment from 2016 to 2021, representing a loss of 21,781 jobs.

**Table 1 – Industries ranked by employment, 2021**

| Industry  |  | Employment       |                  | Industrial Share |             | Employment change |              |
|-----------|--|------------------|------------------|------------------|-------------|-------------------|--------------|
| Number    | Description  | 2016             | 2021             | 2016             | 2021        | Number            | Percent      |
| 722       | Food Services and Drinking Places                                      | 180,655          | 158,874          | 8.5%             | 7.8%        | -21,781           | -12.1%       |
| 621       | Ambulatory Health Care Services  | 139,940          | 143,376          | 6.6%             | 7.0%        | +3,436            | +2.5%        |
| 541       | Professional, Scientific, and Technical Services                       | 120,756          | 120,993          | 5.7%             | 5.9%        | +237              | +0.2%        |
| 622       | Hospitals  | 110,746          | 104,161          | 5.2%             | 5.1%        | -6,585            | -5.9%        |
| 561       | Administrative and Support Services                                    | 106,175          | 94,219           | 5.0%             | 4.6%        | -11,956           | -11.3%       |
| 624       | Social Assistance  | 75,917           | 82,923           | 3.6%             | 4.1%        | +7,006            | +9.2%        |
| 623       | Nursing and Residential Care Facilities                                | 90,311           | 77,362           | 4.2%             | 3.8%        | -12,949           | -14.3%       |
| 238       | Specialty Trade Contractors  | 59,466           | 61,251           | 2.8%             | 3.0%        | +1,785            | +3.0%        |
| 611       | Educational Services   | 61,721           | 58,324           | 2.9%             | 2.9%        | -3,397            | -5.5%        |
| 551       | Management of Companies and Enterprises                                | 54,185           | 55,250           | 2.5%             | 2.7%        | +1,065            | +2.0%        |
| 452       | General Merchandise Stores   | 59,409           | 54,621           | 2.8%             | 2.7%        | -4,788            | -8.1%        |
| 445       | Food and Beverage Stores   | 55,908           | 53,609           | 2.6%             | 2.6%        | -2,299            | -4.1%        |
| 522       | Credit Intermediation and Related Activities                           | 48,511           | 46,197           | 2.3%             | 2.3%        | -2,314            | -4.8%        |
| 524       | Insurance Carriers and Related Activities                              | 39,685           | 45,401           | 1.9%             | 2.2%        | +5,716            | +14.4%       |
| 332       | Fabricated Metal Product Manufacturing                                 | 45,190           | 42,174           | 2.1%             | 2.1%        | -3,016            | -6.7%        |
| 423       | Merchant Wholesalers, Durable Goods                                    | 43,065           | 40,457           | 2.0%             | 2.0%        | -2,608            | -6.1%        |
| 493       | Warehousing and Storage  | 29,246           | 37,021           | 1.4%             | 1.8%        | +7,775            | +26.6%       |
| 441       | Motor Vehicle and Parts Dealers  | 38,785           | 36,689           | 1.8%             | 1.8%        | -2,096            | -5.4%        |
| 484       | Truck Transportation   | 30,299           | 30,831           | 1.4%             | 1.5%        | +532              | +1.8%        |
| 813       | Religious, Grantmaking, Civic, Professional, and Similar Organizations | 32,392           | 27,872           | 1.5%             | 1.4%        | -4,520            | -14.0%       |
| <b>10</b> | <b>Total Economy</b>   | <b>2,129,596</b> | <b>2,039,708</b> | <b>100%</b>      | <b>100%</b> | <b>-89,888</b>    | <b>-4.2%</b> |

Table 2 ranks industries by **employment change**, in **absolute** terms (i.e., the number of jobs added or lost), from 2016 to 2021.

The top ten rows display the industries that had the largest *increases* over the time period. **Warehousing and Storage** saw the largest growth, gaining 7,775 jobs over the five-year span.

The bottom ten rows display the industries that had the largest *decreases* over the time period. **Food Services and Drinking Places** saw the largest decline, losing 21,781 jobs from 2016 to 2021.

**Table 2 – Industries ranked by employment change, Number, 2016 to 2021**

| Industry  |  | Employment       |                  | Industrial Share |             | Employment change |              |
|-----------|--|------------------|------------------|------------------|-------------|-------------------|--------------|
| Number    | Description  | 2016             | 2021             | 2016             | 2021        | Number            | Percent      |
| 493       | Warehousing and Storage  | 29,246           | 37,021           | 1.4%             | 1.8%        | +7,775            | +26.6%       |
| 624       | Social Assistance  | 75,917           | 82,923           | 3.6%             | 4.1%        | +7,006            | +9.2%        |
| 524       | Insurance Carriers and Related Activities                              | 39,685           | 45,401           | 1.9%             | 2.2%        | +5,716            | +14.4%       |
| 492       | Couriers and Messengers  | 9,188            | 13,617           | 0.4%             | 0.7%        | +4,429            | +48.2%       |
| 237       | Heavy and Civil Engineering Construction                               | 18,968           | 23,208           | 0.9%             | 1.1%        | +4,240            | +22.4%       |
| 621       | Ambulatory Health Care Services  | 139,940          | 143,376          | 6.6%             | 7.0%        | +3,436            | +2.5%        |
| 238       | Specialty Trade Contractors  | 59,466           | 61,251           | 2.8%             | 3.0%        | +1,785            | +3.0%        |
| 454       | Nonstore Retailers   | 12,437           | 13,985           | 0.6%             | 0.7%        | +1,548            | +12.4%       |
| 111       | Crop Production  | 3,044            | 4,544            | 0.1%             | 0.2%        | +1,500            | +49.3%       |
| 312       | Beverage and Tobacco Product Manufacturing                             | 3,778            | 5,250            | 0.2%             | 0.3%        | +1,472            | +39.0%       |
| 611       | Educational Services   | 61,721           | 58,324           | 2.9%             | 2.9%        | -3,397            | -5.5%        |
| 425       | Wholesale Electronic Markets and Agents and Brokers                    | 16,617           | 13,017           | 0.8%             | 0.6%        | -3,600            | -21.7%       |
| 813       | Religious, Grantmaking, Civic, Professional, and Similar Organizations | 32,392           | 27,872           | 1.5%             | 1.4%        | -4,520            | -14.0%       |
| 452       | General Merchandise Stores   | 59,409           | 54,621           | 2.8%             | 2.7%        | -4,788            | -8.1%        |
| 448       | Clothing and Clothing Accessories Stores                               | 17,808           | 11,671           | 0.8%             | 0.6%        | -6,137            | -34.5%       |
| 622       | Hospitals  | 110,746          | 104,161          | 5.2%             | 5.1%        | -6,585            | -5.9%        |
| 721       | Accommodation  | 29,597           | 22,224           | 1.4%             | 1.1%        | -7,373            | -24.9%       |
| 561       | Administrative and Support Services                                    | 106,175          | 94,219           | 5.0%             | 4.6%        | -11,956           | -11.3%       |
| 623       | Nursing and Residential Care Facilities                                | 90,311           | 77,362           | 4.2%             | 3.8%        | -12,949           | -14.3%       |
| 722       | Food Services and Drinking Places                                      | 180,655          | 158,874          | 8.5%             | 7.8%        | -21,781           | -12.1%       |
| <b>10</b> | <b>Total Economy</b>   | <b>2,129,596</b> | <b>2,039,708</b> | <b>100%</b>      | <b>100%</b> | <b>-89,888</b>    | <b>-4.2%</b> |

Table 3 ranks industries by **employment change**, in **relative** terms (i.e., percent change), from 2016 to 2021. Quick note: only industries that had at least a 0.5% industrial share in 2016 are included in the table; otherwise, industries with low employment numbers would dominate the table (e.g., an industry jumping from 2 to 4 employees is a 100% increase).

The top ten rows display the industries that had the largest relative *increases* over the time period. **Warehousing and Storage** saw the largest growth, going from 29,246 jobs in 2016 to 37,021 in 2021. These 7,775 added jobs represent growth of 26.6%.

The bottom ten rows display the industries that saw the largest relative *decreases* over the time period. **Clothing and Clothing Accessories Stores** saw the largest decline, dropping from 17,808 jobs in 2016 to 11,671 in 2021. These 6,137 lost jobs represent a decrease of 34.5%.

Table 3 – Industries ranked by employment change, Percent, 2016 to 2021

| Industry  |  | Employment       |                  | Industrial Share |             | Employment change |              |
|-----------|--|------------------|------------------|------------------|-------------|-------------------|--------------|
| Number    | Description  | 2016             | 2021             | 2016             | 2021        | Number            | Percent      |
| 493       | Warehousing and Storage  | 29,246           | 37,021           | 1.4%             | 1.8%        | +7,775            | +26.6%       |
| 237       | Heavy and Civil Engineering Construction                               | 18,968           | 23,208           | 0.9%             | 1.1%        | +4,240            | +22.4%       |
| 524       | Insurance Carriers and Related Activities                              | 39,685           | 45,401           | 1.9%             | 2.2%        | +5,716            | +14.4%       |
| 454       | Nonstore Retailers   | 12,437           | 13,985           | 0.6%             | 0.7%        | +1,548            | +12.4%       |
| 624       | Social Assistance  | 75,917           | 82,923           | 3.6%             | 4.1%        | +7,006            | +9.2%        |
| 444       | Building Material and Garden Equipment and Supplies Dealers            | 22,968           | 24,273           | 1.1%             | 1.2%        | +1,305            | +5.7%        |
| 334       | Computer and Electronic Product Manufacturing                          | 15,649           | 16,199           | 0.7%             | 0.8%        | +550              | +3.5%        |
| 326       | Plastics and Rubber Products Manufacturing                             | 22,083           | 22,824           | 1.0%             | 1.1%        | +741              | +3.4%        |
| 238       | Specialty Trade Contractors  | 59,466           | 61,251           | 2.8%             | 3.0%        | +1,785            | +3.0%        |
| 621       | Ambulatory Health Care Services  | 139,940          | 143,376          | 6.6%             | 7.0%        | +3,436            | +2.5%        |
| 336       | Transportation Equipment Manufacturing                                 | 14,463           | 12,470           | 0.7%             | 0.6%        | -1,993            | -13.8%       |
| 813       | Religious, Grantmaking, Civic, Professional, and Similar Organizations | 32,392           | 27,872           | 1.5%             | 1.4%        | -4,520            | -14.0%       |
| 623       | Nursing and Residential Care Facilities                                | 90,311           | 77,362           | 4.2%             | 3.8%        | -12,949           | -14.3%       |
| 331       | Primary Metal Manufacturing  | 21,151           | 18,105           | 1.0%             | 0.9%        | -3,046            | -14.4%       |
| 327       | Nonmetallic Mineral Product Manufacturing                              | 11,524           | 9,793            | 0.5%             | 0.5%        | -1,731            | -15.0%       |
| 485       | Transit and Ground Passenger Transportation                            | 17,987           | 15,117           | 0.8%             | 0.7%        | -2,870            | -16.0%       |
| 425       | Wholesale Electronic Markets and Agents and Brokers                    | 16,617           | 13,017           | 0.8%             | 0.6%        | -3,600            | -21.7%       |
| 721       | Accommodation  | 29,597           | 22,224           | 1.4%             | 1.1%        | -7,373            | -24.9%       |
| 451       | Sporting Goods, Hobby, Musical Instrument, and Book Stores             | 10,741           | 7,738            | 0.5%             | 0.4%        | -3,003            | -28.0%       |
| 448       | Clothing and Clothing Accessories Stores                               | 17,808           | 11,671           | 0.8%             | 0.6%        | -6,137            | -34.5%       |
| <b>10</b> | <b>Total Economy</b>   | <b>2,129,596</b> | <b>2,039,708</b> | <b>100%</b>      | <b>100%</b> | <b>-89,888</b>    | <b>-4.2%</b> |

Table 4 ranks industries by **location quotient** in 2021. Location quotients allow us to see how specialized industries are in Appalachian Pennsylvania relative to the United States as a whole. They are calculated by simply dividing industrial shares in Appalachian Pennsylvania by industrial shares for the country overall.

For example, in Appalachian Pennsylvania, there were 3.1x as many employees—in relative terms—in **Primary Metal Manufacturing** in 2021 than in the United States as a whole. (The industrial share for the industry was 0.9% in Appalachian Pennsylvania, compared to 0.28% in the United States as a whole.)

**Table 4 – Industries ranked by Location Quotient, 2021**

| Industry  |  | Employment       |                  | Industrial Share |             | Employment change |              | Location quotient |            |
|-----------|--|------------------|------------------|------------------|-------------|-------------------|--------------|-------------------|------------|
| Number    | Description  | 2016             | 2021             | 2016             | 2021        | Number            | Percent      | 2016              | 2021       |
| 331       | Primary Metal Manufacturing  | 21,151           | 18,105           | 1.0%             | 0.9%        | -3,046            | -14.4%       | 3.2               | 3.1        |
| 485       | Transit and Ground Passenger Transportation                            | 17,987           | 15,117           | 0.8%             | 0.7%        | -2,870            | -16.0%       | 2.2               | 2.5        |
| 212       | Mining (except Oil and Gas)  | 7,687            | 6,880            | 0.4%             | 0.3%        | -807              | -10.5%       | 2.4               | 2.4        |
| 213       | Support Activities for Mining  | 9,024            | 8,328            | 0.4%             | 0.4%        | -696              | -7.7%        | 2.0               | 2.2        |
| 321       | Wood Product Manufacturing   | 15,024           | 14,601           | 0.7%             | 0.7%        | -423              | -2.8%        | 2.2               | 2.1        |
| 211       | Oil and Gas Extraction   | 5,342            | 3,817            | 0.3%             | 0.2%        | -1,525            | -28.5%       | 1.7               | 2.0        |
| 486       | Pipeline Transportation  | 1,444            | 1,657            | 0.1%             | 0.1%        | +213              | +14.8%       | 1.7               | 2.0        |
| 324       | Petroleum and Coal Products Manufacturing                              | 3,568            | 3,342            | 0.2%             | 0.2%        | -226              | -6.3%        | 1.8               | 1.9        |
| 326       | Plastics and Rubber Products Manufacturing                             | 22,083           | 22,824           | 1.0%             | 1.1%        | +741              | +3.4%        | 1.8               | 1.9        |
| 332       | Fabricated Metal Product Manufacturing                                 | 45,190           | 42,174           | 2.1%             | 2.1%        | -3,016            | -6.7%        | 1.8               | 1.8        |
| 322       | Paper Manufacturing  | 10,688           | 9,637            | 0.5%             | 0.5%        | -1,051            | -9.8%        | 1.6               | 1.7        |
| 425       | Wholesale Electronic Markets and Agents and Brokers                    | 16,617           | 13,017           | 0.8%             | 0.6%        | -3,600            | -21.7%       | 1.0               | 1.6        |
| 623       | Nursing and Residential Care Facilities                                | 90,311           | 77,362           | 4.2%             | 3.8%        | -12,949           | -14.3%       | 1.5               | 1.5        |
| 327       | Nonmetallic Mineral Product Manufacturing                              | 11,524           | 9,793            | 0.5%             | 0.5%        | -1,731            | -15.0%       | 1.6               | 1.5        |
| 551       | Management of Companies and Enterprises                                | 54,185           | 55,250           | 2.5%             | 2.7%        | +1,065            | +2.0%        | 1.4               | 1.4        |
| 447       | Gasoline Stations  | 22,430           | 21,801           | 1.1%             | 1.1%        | -629              | -2.8%        | 1.4               | 1.4        |
| 221       | Utilities  | 13,177           | 12,223           | 0.6%             | 0.6%        | -954              | -7.2%        | 1.4               | 1.4        |
| 813       | Religious, Grantmaking, Civic, Professional, and Similar Organizations | 32,392           | 27,872           | 1.5%             | 1.4%        | -4,520            | -14.0%       | 1.3               | 1.3        |
| 237       | Heavy and Civil Engineering Construction                               | 18,968           | 23,208           | 0.9%             | 1.1%        | +4,240            | +22.4%       | 1.1               | 1.3        |
| 454       | Nonstore Retailers   | 12,437           | 13,985           | 0.6%             | 0.7%        | +1,548            | +12.4%       | 1.3               | 1.3        |
| <b>10</b> | <b>Total Economy</b>   | <b>2,129,596</b> | <b>2,039,708</b> | <b>100%</b>      | <b>100%</b> | <b>-89,888</b>    | <b>-4.2%</b> | <b>1.0</b>        | <b>1.0</b> |

Table 5 lists **employment levels** in Pennsylvania’s Appalachian counties in 2016 and 2021, along with two change variables: number and percent. Additional geographies – the United States as a whole, Appalachia, and state-level estimates — are also included for comparison.

**Table 5 – Total employment, counties in Appalachian Pennsylvania**

| County                       | Employment  |             | Employment change |         |
|------------------------------|-------------|-------------|-------------------|---------|
|                              | 2016        | 2021        | Number            | Percent |
| United States                | 120,676,775 | 122,851,611 | +2,174,836        | +1.8%   |
| Appalachian Region           | 8,377,996   | 8,408,130   | +30,134           | +0.4%   |
| Pennsylvania                 | 5,071,807   | 5,005,704   | -66,103           | -1.3%   |
| Appalachian Pennsylvania     | 2,129,596   | 2,039,708   | -89,888           | -4.2%   |
| Non-Appalachian Pennsylvania | 2,942,211   | 2,965,996   | +23,785           | +0.8%   |
| Allegheny County, PA         | 648,310     | 623,619     | -24,691           | -3.8%   |
| Armstrong County, PA         | 14,054      | 13,737      | -317              | -2.3%   |
| Beaver County, PA            | 45,243      | 47,955      | +2,712            | +6.0%   |
| Bedford County, PA           | 13,447      | 13,628      | +181              | +1.3%   |
| Blair County, PA             | 52,429      | 50,442      | -1,987            | -3.8%   |
| Bradford County, PA          | 20,670      | 18,996      | -1,674            | -8.1%   |
| Butler County, PA            | 77,823      | 76,008      | -1,815            | -2.3%   |
| Cambria County, PA           | 46,238      | 41,145      | -5,093            | -11.0%  |
| Cameron County, PA           | 1,593       | 1,380       | -213              | -13.4%  |
| Carbon County, PA            | 14,724      | 13,072      | -1,652            | -11.2%  |
| Centre County, PA            | 46,114      | 43,403      | -2,711            | -5.9%   |
| Clarion County, PA           | 11,131      | 10,052      | -1,079            | -9.7%   |
| Clearfield County, PA        | 25,481      | 25,105      | -376              | -1.5%   |
| Clinton County, PA           | 10,836      | 10,265      | -571              | -5.3%   |
| Columbia County, PA          | 21,605      | 20,646      | -959              | -4.4%   |
| Crawford County, PA          | 27,254      | 24,930      | -2,324            | -8.5%   |
| Elk County, PA               | 13,854      | 12,370      | -1,484            | -10.7%  |
| Erie County, PA              | 110,316     | 103,663     | -6,653            | -6.0%   |
| Fayette County, PA           | 34,247      | 31,958      | -2,289            | -6.7%   |
| Forest County, PA            | 1,010       | 834         | -176              | -17.4%  |
| Fulton County, PA            | 4,197       | 3,971       | -226              | -5.4%   |
| Greene County, PA            | 10,856      | 9,188       | -1,668            | -15.4%  |
| Huntingdon County, PA        | 9,512       | 9,207       | -305              | -3.2%   |
| Indiana County, PA           | 25,050      | 22,828      | -2,222            | -8.9%   |
| Jefferson County, PA         | 13,627      | 13,107      | -520              | -3.8%   |
| Juniata County, PA           | 5,721       | 5,994       | +273              | +4.8%   |
| Lackawanna County, PA        | 89,627      | 85,102      | -4,525            | -5.0%   |

| County                    | Employment |         | Employment change |         |
|---------------------------|------------|---------|-------------------|---------|
|                           | 2016       | 2021    | Number            | Percent |
| Lawrence County, PA       | 25,300     | 23,997  | -1,303            | -5.2%   |
| Luzerne County, PA        | 129,373    | 126,382 | -2,991            | -2.3%   |
| Lycoming County, PA       | 45,061     | 42,083  | -2,978            | -6.6%   |
| McKean County, PA         | 13,078     | 11,834  | -1,244            | -9.5%   |
| Mercer County, PA         | 43,041     | 38,291  | -4,750            | -11.0%  |
| Mifflin County, PA        | 13,904     | 14,006  | +102              | +0.7%   |
| Monroe County, PA         | 45,963     | 45,140  | -823              | -1.8%   |
| Montour County, PA        | 14,111     | 15,202  | +1,091            | +7.7%   |
| Northumberland County, PA | 24,057     | 22,714  | -1,343            | -5.6%   |
| Perry County, PA          | 6,181      | 6,174   | -7                | -0.1%   |
| Pike County, PA           | 8,918      | 9,007   | +89               | +1.0%   |
| Potter County, PA         | 4,338      | 4,216   | -122              | -2.8%   |
| Schuylkill County, PA     | 43,330     | 41,418  | -1,912            | -4.4%   |
| Snyder County, PA         | 14,218     | 13,320  | -898              | -6.3%   |
| Somerset County, PA       | 19,837     | 19,127  | -710              | -3.6%   |
| Sullivan County, PA       | 1,291      | 985     | -306              | -23.7%  |
| Susquehanna County, PA    | 7,459      | 7,137   | -322              | -4.3%   |
| Tioga County, PA          | 10,574     | 10,496  | -78               | -0.7%   |
| Union County, PA          | 14,663     | 14,483  | -180              | -1.2%   |
| Venango County, PA        | 15,243     | 14,111  | -1,132            | -7.4%   |
| Warren County, PA         | 12,888     | 11,445  | -1,443            | -11.2%  |
| Washington County, PA     | 79,253     | 77,892  | -1,361            | -1.7%   |
| Wayne County, PA          | 11,998     | 11,904  | -94               | -0.8%   |
| Westmoreland County, PA   | 121,760    | 117,587 | -4,173            | -3.4%   |
| Wyoming County, PA        | 8,788      | 8,152   | -636              | -7.2%   |

Table 6 lists **industry-level employment estimates** in Appalachian Pennsylvania, along with change variables, industrial shares, and location quotients (relative to the United States as a whole).

Table 6 – Industry-level employment in Appalachian Pennsylvania

| Industry |  | Employment |           | Employment change |         | Industrial share |        | Location quotient |      |
|----------|--|------------|-----------|-------------------|---------|------------------|--------|-------------------|------|
|          |  | 2016       | 2021      | Number            | Percent | 2016             | 2021   | 2016              | 2021 |
| 10       | Total Economy  | 2,129,596  | 2,039,708 | -89,888           | -4.2%   | 100.0%           | 100.0% | 1.0               | 1.0  |
| 111      | <a href="#">Crop Production</a>  | 3,044      | 4,544     | +1,500            | +49.3%  | 0.1%             | 0.2%   | 0.3               | 0.5  |
| 112      | <a href="#">Animal Production and Aquaculture</a>                            | 2,643      | 2,897     | +254              | +9.6%   | 0.1%             | 0.1%   | 0.6               | 0.7  |
| 113      | <a href="#">Forestry and Logging</a>   | 738        | 727       | -11               | -1.5%   | 0.0%             | 0.0%   | 0.7               | 0.8  |
| 114      | <a href="#">Fishing, Hunting and Trapping</a>                                | 33         | 36        | +3                | +9.1%   | 0.0%             | 0.0%   | 0.2               | 0.3  |
| 115      | <a href="#">Support Activities for Agriculture and Forestry</a>              | 954        | 891       | -63               | -6.6%   | 0.0%             | 0.0%   | 0.1               | 0.1  |
| 211      | <a href="#">Oil and Gas Extraction</a>                                       | 5,342      | 3,817     | -1,525            | -28.5%  | 0.3%             | 0.2%   | 1.7               | 2.0  |
| 212      | <a href="#">Mining (except Oil and Gas)</a>                                  | 7,687      | 6,880     | -807              | -10.5%  | 0.4%             | 0.3%   | 2.4               | 2.4  |
| 213      | <a href="#">Support Activities for Mining</a>                                | 9,024      | 8,328     | -696              | -7.7%   | 0.4%             | 0.4%   | 2.0               | 2.2  |
| 221      | <a href="#">Utilities</a>  | 13,177     | 12,223    | -954              | -7.2%   | 0.6%             | 0.6%   | 1.4               | 1.4  |
| 236      | <a href="#">Construction of Buildings</a>                                    | 24,952     | 24,727    | -225              | -0.9%   | 1.2%             | 1.2%   | 0.9               | 0.9  |
| 237      | <a href="#">Heavy and Civil Engineering Construction</a>                     | 18,968     | 23,208    | +4,240            | +22.4%  | 0.9%             | 1.1%   | 1.1               | 1.3  |
| 238      | <a href="#">Specialty Trade Contractors</a>                                  | 59,466     | 61,251    | +1,785            | +3.0%   | 2.8%             | 3.0%   | 0.8               | 0.8  |
| 311      | <a href="#">Food Manufacturing</a>   | 25,120     | 24,857    | -263              | -1.0%   | 1.2%             | 1.2%   | 0.9               | 0.9  |
| 312      | <a href="#">Beverage and Tobacco Product Manufacturing</a>                   | 3,778      | 5,250     | +1,472            | +39.0%  | 0.2%             | 0.3%   | 0.9               | 1.0  |
| 313      | <a href="#">Textile Mills</a>  | 1,788      | 1,519     | -269              | -15.0%  | 0.1%             | 0.1%   | 0.9               | 0.9  |
| 314      | <a href="#">Textile Product Mills</a>  | 2,107      | 1,342     | -765              | -36.3%  | 0.1%             | 0.1%   | 1.0               | 0.8  |
| 315      | <a href="#">Apparel Manufacturing</a>  | 982        | 561       | -421              | -42.9%  | 0.0%             | 0.0%   | 0.4               | 0.4  |
| 316      | <a href="#">Leather and Allied Product Manufacturing</a>                     | 494        | 462       | -32               | -6.5%   | 0.0%             | 0.0%   | 1.0               | 1.1  |
| 321      | <a href="#">Wood Product Manufacturing</a>                                   | 15,024     | 14,601    | -423              | -2.8%   | 0.7%             | 0.7%   | 2.2               | 2.1  |
| 322      | <a href="#">Paper Manufacturing</a>  | 10,688     | 9,637     | -1,051            | -9.8%   | 0.5%             | 0.5%   | 1.6               | 1.7  |
| 323      | <a href="#">Printing and Related Support Activities</a>                      | 7,343      | 5,864     | -1,479            | -20.1%  | 0.3%             | 0.3%   | 0.9               | 1.0  |
| 324      | <a href="#">Petroleum and Coal Products Manufacturing</a>                    | 3,568      | 3,342     | -226              | -6.3%   | 0.2%             | 0.2%   | 1.8               | 1.9  |
| 325      | <a href="#">Chemical Manufacturing</a>                                       | 11,574     | 11,771    | +197              | +1.7%   | 0.5%             | 0.6%   | 0.8               | 0.8  |
| 326      | <a href="#">Plastics and Rubber Products Manufacturing</a>                   | 22,083     | 22,824    | +741              | +3.4%   | 1.0%             | 1.1%   | 1.8               | 1.9  |
| 327      | <a href="#">Nonmetallic Mineral Product Manufacturing</a>                    | 11,524     | 9,793     | -1,731            | -15.0%  | 0.5%             | 0.5%   | 1.6               | 1.5  |
| 331      | <a href="#">Primary Metal Manufacturing</a>                                  | 21,151     | 18,105    | -3,046            | -14.4%  | 1.0%             | 0.9%   | 3.2               | 3.1  |
| 332      | <a href="#">Fabricated Metal Product Manufacturing</a>                       | 45,190     | 42,174    | -3,016            | -6.7%   | 2.1%             | 2.1%   | 1.8               | 1.8  |
| 333      | <a href="#">Machinery Manufacturing</a>                                      | 22,703     | 22,238    | -465              | -2.0%   | 1.1%             | 1.1%   | 1.2               | 1.3  |
| 334      | <a href="#">Computer and Electronic Product Manufacturing</a>                | 15,649     | 16,199    | +550              | +3.5%   | 0.7%             | 0.8%   | 0.8               | 0.9  |
| 335      | <a href="#">Electrical Equipment, Appliance, and Component Manufacturing</a> | 8,910      | 8,582     | -328              | -3.7%   | 0.4%             | 0.4%   | 1.3               | 1.3  |
| 336      | <a href="#">Transportation Equipment Manufacturing</a>                       | 14,463     | 12,470    | -1,993            | -13.8%  | 0.7%             | 0.6%   | 0.5               | 0.5  |
| 337      | <a href="#">Furniture and Related Product Manufacturing</a>                  | 6,144      | 5,623     | -521              | -8.5%   | 0.3%             | 0.3%   | 0.9               | 0.9  |
| 339      | <a href="#">Miscellaneous Manufacturing</a>                                  | 9,198      | 8,856     | -342              | -3.7%   | 0.4%             | 0.4%   | 0.9               | 0.9  |

| Industry  | Employment |         | Employment change |         | Industrial share |      | Location quotient |      |
|---|------------|---------|-------------------|---------|------------------|------|-------------------|------|
|   | 2016       | 2021    | Number            | Percent | 2016             | 2021 | 2016              | 2021 |
| 423 <a href="#">Merchant Wholesalers, Durable Goods</a>   | 43,065     | 40,457  | -2,608            | -6.1%   | 2.0%             | 2.0% | 0.8               | 0.8  |
| 424 <a href="#">Merchant Wholesalers, Nondurable Goods</a>  | 22,854     | 20,055  | -2,799            | -12.2%  | 1.1%             | 1.0% | 0.6               | 0.6  |
| 425 <a href="#">Wholesale Electronic Markets and Agents and Brokers</a>                                     | 16,617     | 13,017  | -3,600            | -21.7%  | 0.8%             | 0.6% | 1.0               | 1.6  |
| 441 <a href="#">Motor Vehicle and Parts Dealers</a>   | 38,785     | 36,689  | -2,096            | -5.4%   | 1.8%             | 1.8% | 1.1               | 1.1  |
| 442 <a href="#">Furniture and Home Furnishings Stores</a>   | 6,425      | 5,837   | -588              | -9.2%   | 0.3%             | 0.3% | 0.8               | 0.8  |
| 443 <a href="#">Electronics and Appliance Stores</a>  | 6,351      | 5,329   | -1,022            | -16.1%  | 0.3%             | 0.3% | 0.7               | 0.8  |
| 444 <a href="#">Building Material and Garden Equipment and Supplies Dealers</a>                             | 22,968     | 24,273  | +1,305            | +5.7%   | 1.1%             | 1.2% | 1.0               | 1.0  |
| 445 <a href="#">Food and Beverage Stores</a>  | 55,908     | 53,609  | -2,299            | -4.1%   | 2.6%             | 2.6% | 1.0               | 1.0  |
| 446 <a href="#">Health and Personal Care Stores</a>   | 19,917     | 17,849  | -2,068            | -10.4%  | 0.9%             | 0.9% | 1.1               | 1.0  |
| 447 <a href="#">Gasoline Stations</a>   | 22,430     | 21,801  | -629              | -2.8%   | 1.1%             | 1.1% | 1.4               | 1.4  |
| 448 <a href="#">Clothing and Clothing Accessories Stores</a>  | 17,808     | 11,671  | -6,137            | -34.5%  | 0.8%             | 0.6% | 0.8               | 0.7  |
| 451 <a href="#">Sporting Goods, Hobby, Musical Instrument, and Book Stores</a>                              | 10,741     | 7,738   | -3,003            | -28.0%  | 0.5%             | 0.4% | 1.0               | 0.9  |
| 452 <a href="#">General Merchandise Stores</a>  | 59,409     | 54,621  | -4,788            | -8.1%   | 2.8%             | 2.7% | 1.0               | 1.1  |
| 453 <a href="#">Miscellaneous Store Retailers</a>   | 14,461     | 13,767  | -694              | -4.8%   | 0.7%             | 0.7% | 1.0               | 1.0  |
| 454 <a href="#">Nonstore Retailers</a>  | 12,437     | 13,985  | +1,548            | +12.4%  | 0.6%             | 0.7% | 1.3               | 1.3  |
| 481 <a href="#">Air Transportation</a>  | 2,803      | 2,661   | -142              | -5.1%   | 0.1%             | 0.1% | 0.3               | 0.3  |
| 482 <a href="#">Rail Transportation* (includes 482 Rail Transp. adjustment)</a>                             | 4,281      | 3,031   | -1,250            | -29.2%  | 0.2%             | 0.1% | 1.3               | 1.2  |
| 483 <a href="#">Water Transportation</a>  | 366        | 323     | -43               | -11.7%  | 0.0%             | 0.0% | 0.3               | 0.3  |
| 484 <a href="#">Truck Transportation</a>  | 30,299     | 30,831  | +532              | +1.8%   | 1.4%             | 1.5% | 1.2               | 1.2  |
| 485 <a href="#">Transit and Ground Passenger Transportation</a>   | 17,987     | 15,117  | -2,870            | -16.0%  | 0.8%             | 0.7% | 2.2               | 2.5  |
| 486 <a href="#">Pipeline Transportation</a>   | 1,444      | 1,657   | +213              | +14.8%  | 0.1%             | 0.1% | 1.7               | 2.0  |
| 487 <a href="#">Scenic and Sightseeing Transportation</a>   | 335        | 189     | -146              | -43.6%  | 0.0%             | 0.0% | 0.6               | 0.5  |
| 488 <a href="#">Support Activities for Transportation</a>   | 6,448      | 6,529   | +81               | +1.3%   | 0.3%             | 0.3% | 0.6               | 0.6  |
| 491 <a href="#">Postal Service</a>  | 11         | 19      | +8                | +72.7%  | 0.0%             | 0.0% | 0.1               | 0.2  |
| 492 <a href="#">Couriers and Messengers</a>   | 9,188      | 13,617  | +4,429            | +48.2%  | 0.4%             | 0.7% | 0.8               | 0.8  |
| 493 <a href="#">Warehousing and Storage</a>   | 29,246     | 37,021  | +7,775            | +26.6%  | 1.4%             | 1.8% | 1.8               | 1.3  |
| 511 <a href="#">Publishing Industries (except Internet)</a>   | 9,567      | 8,840   | -727              | -7.6%   | 0.4%             | 0.4% | 0.7               | 0.7  |
| 512 <a href="#">Motion Picture and Sound Recording Industries</a>   | 3,503      | 2,935   | -568              | -16.2%  | 0.2%             | 0.1% | 0.5               | 0.5  |
| 515 <a href="#">Broadcasting (except Internet)</a>  | 3,333      | 2,690   | -643              | -19.3%  | 0.2%             | 0.1% | 0.7               | 0.7  |
| 517 <a href="#">Telecommunications</a>  | 10,346     | 10,342  | -4                | -0.0%   | 0.5%             | 0.5% | 0.7               | 0.9  |
| 518 <a href="#">Data Processing, Hosting, and Related Services</a>  | 1,861      | 3,224   | +1,363            | +73.2%  | 0.1%             | 0.2% | 0.4               | 0.5  |
| 519 <a href="#">Other Information Services</a>  | 3,836      | 4,851   | +1,015            | +26.5%  | 0.2%             | 0.2% | 0.8               | 0.8  |
| 521 <a href="#">Monetary Authorities-Central Bank</a>   | 51         | 27      | -24               | -47.1%  | 0.0%             | 0.0% | 0.2               | 0.1  |
| 522 <a href="#">Credit Intermediation and Related Activities</a>  | 48,511     | 46,197  | -2,314            | -4.8%   | 2.3%             | 2.3% | 1.1               | 1.0  |
| 523 <a href="#">Securities, Commodity Contracts, and Other Financial Investments and Related Activities</a> | 8,793      | 9,026   | +233              | +2.6%   | 0.4%             | 0.4% | 0.5               | 0.6  |
| 524 <a href="#">Insurance Carriers and Related Activities</a>   | 39,685     | 45,401  | +5,716            | +14.4%  | 1.9%             | 2.2% | 1.0               | 1.1  |
| 525 <a href="#">Funds, Trusts, and Other Financial Vehicles</a>   | 35         | 106     | +71               | +202.9% | 0.0%             | 0.0% | 0.2               | 0.3  |
| 531 <a href="#">Real Estate</a>   | 15,220     | 15,354  | +134              | +0.9%   | 0.7%             | 0.8% | 0.6               | 0.5  |
| 532 <a href="#">Rental and Leasing Services</a>   | 8,947      | 8,567   | -380              | -4.2%   | 0.4%             | 0.4% | 0.9               | 1.1  |
| 533 <a href="#">Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)</a>                    | 135        | 94      | -41               | -30.4%  | 0.0%             | 0.0% | 0.3               | 0.3  |
| 541 <a href="#">Professional, Scientific, and Technical Services</a>  | 120,756    | 120,993 | +237              | +0.2%   | 5.7%             | 5.9% | 0.8               | 0.7  |
| 551 <a href="#">Management of Companies and Enterprises</a>   | 54,185     | 55,250  | +1,065            | +2.0%   | 2.5%             | 2.7% | 1.4               | 1.4  |

| Industry   | Employment |         | Employment change |         | Industrial share |      | Location quotient |      |
|--|------------|---------|-------------------|---------|------------------|------|-------------------|------|
|  | 2016       | 2021    | Number            | Percent | 2016             | 2021 | 2016              | 2021 |
| 561 <a href="#">Administrative and Support Services</a>                                    | 106,175    | 94,219  | -11,956           | -11.3%  | 5.0%             | 4.6% | 0.7               | 0.7  |
| 562 <a href="#">Waste Management and Remediation Services</a>                              | 7,702      | 8,636   | +934              | +12.1%  | 0.4%             | 0.4% | 1.1               | 1.1  |
| 611 <a href="#">Educational Services</a>   | 61,721     | 58,324  | -3,397            | -5.5%   | 2.9%             | 2.9% | 1.3               | 1.2  |
| 621 <a href="#">Ambulatory Health Care Services</a>  | 139,940    | 143,376 | +3,436            | +2.5%   | 6.6%             | 7.0% | 1.1               | 1.1  |
| 622 <a href="#">Hospitals</a>  | 110,746    | 104,161 | -6,585            | -5.9%   | 5.2%             | 5.1% | 1.3               | 1.2  |
| 623 <a href="#">Nursing and Residential Care Facilities</a>                                | 90,311     | 77,362  | -12,949           | -14.3%  | 4.2%             | 3.8% | 1.5               | 1.5  |
| 624 <a href="#">Social Assistance</a>  | 75,917     | 82,923  | +7,006            | +9.2%   | 3.6%             | 4.1% | 1.2               | 1.3  |
| 711 <a href="#">Performing Arts, Spectator Sports, and Related Industries</a>              | 7,267      | 5,290   | -1,977            | -27.2%  | 0.3%             | 0.3% | 0.9               | 0.8  |
| 712 <a href="#">Museums, Historical Sites, and Similar Institutions</a>                    | 2,788      | 2,473   | -315              | -11.3%  | 0.1%             | 0.1% | 1.0               | 1.1  |
| 713 <a href="#">Amusement, Gambling, and Recreation Industries</a>                         | 27,271     | 24,481  | -2,790            | -10.2%  | 1.3%             | 1.2% | 1.0               | 1.0  |
| 721 <a href="#">Accommodation</a>  | 29,597     | 22,224  | -7,373            | -24.9%  | 1.4%             | 1.1% | 0.9               | 0.9  |
| 722 <a href="#">Food Services and Drinking Places</a>                                      | 180,655    | 158,874 | -21,781           | -12.1%  | 8.5%             | 7.8% | 0.9               | 0.9  |
| 811 <a href="#">Repair and Maintenance</a>   | 22,278     | 22,046  | -232              | -1.0%   | 1.0%             | 1.1% | 1.0               | 1.0  |
| 812 <a href="#">Personal and Laundry Services</a>  | 26,609     | 24,841  | -1,768            | -6.6%   | 1.2%             | 1.2% | 1.0               | 1.1  |
| 813 <a href="#">Religious, Grantmaking, Civic, Professional, and Similar Organizations</a> | 32,392     | 27,872  | -4,520            | -14.0%  | 1.5%             | 1.4% | 1.3               | 1.3  |
| 814 <a href="#">Private Households</a>   | 1,370      | 1,417   | +47               | +3.4%   | 0.1%             | 0.1% | 0.3               | 0.4  |
| 999 <a href="#">Unclassified</a>   | 0          | 0       | 0                 | 0%      | 0.0%             | 0.0% | 0.0               | 0.0  |